

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:47:02 ON 16 OCT 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:47:31 ON 16 OCT 2006

=> e amyloid/cn

E1	1	AMYLOHEPTAOSE/CN
E2	1	AMYLOHEXAPOSE/CN
E3	1 -->	AMYLOID/CN
E4	1	AMYLOID (CANDIDA ALBICANS)/CN
E5	1	AMYLOID (HUMAN CLONE 72H04 FRAGMENT)/CN
E6	1	AMYLOID (HUMAN HEREDITARY RENAL AMYLOIDOSIS-ASSOCIATED)/CN
E7	1	AMYLOID (HUMAN P-COMPONENT)/CN
E8	1	AMYLOID (MESOCRICETUS AURATUS)/CN
E9	1	AMYLOID (MONKEY) PROTEIN A/CN
E10	1	AMYLOID (MOUSE CLONE AMIAP-G2)/CN
E11	1	AMYLOID (MOUSE)/CN
E12	1	AMYLOID (PICHIA PINUS)/CN

=> e

E13	17	AMYLOID (SACCHAROMYCES CEREVISIAE)/CN
E14	1	AMYLOID (SYNTHETIC CLONE 10)/CN
E15	1	AMYLOID (SYNTHETIC CLONE 12)/CN
E16	1	AMYLOID (SYNTHETIC CLONE 16)/CN
E17	1	AMYLOID (SYNTHETIC CLONE 17)/CN
E18	1	AMYLOID (SYNTHETIC CLONE 19)/CN
E19	1	AMYLOID (SYNTHETIC CLONE 23)/CN
E20	1	AMYLOID (SYNTHETIC CLONE 24)/CN
E21	1	AMYLOID (SYNTHETIC CLONE 4)/CN
E22	1	AMYLOID (SYNTHETIC CLONE 66)/CN
E23	1	AMYLOID (SYNTHETIC CLONE 68)/CN
E24	1	AMYLOID (SYNTHETIC CLONE 69)/CN

=> e

E25	1	AMYLOID (SYNTHETIC CLONE 7)/CN
E26	1	AMYLOID (SYNTHETIC CLONE 71)/CN
E27	1	AMYLOID (SYNTHETIC CLONE 75)/CN
E28	1	AMYLOID (SYNTHETIC CLONE 78)/CN
E29	1	AMYLOID (SYNTHETIC CLONE 8)/CN
E30	1	AMYLOID (SYNTHETIC)/CN
E31	1	AMYLOID B (HUMAN 7-AMINO ACID N-TERMINAL FRAGMENT TRIPL E REPEAT) FUSION PROTEIN WITH TETANUS TOXOID (CLOSTRIDIUM TE TANI 820-844/947-967 FRAGMENT)/CN
E32	1	AMYLOID B (HUMAN 7-AMINO ACID N-TERMINAL FRAGMENT) FUSI ON PROTEIN WITH 307-319-HEMAGGLUTININ (INFLUENZA VIRUS) FUSI ON PROTEIN WITH ANTIGEN CS (CIRCUMSPOROZOITE) (MALARIA CIRCU MSPOROZOITE) FUSION/CN
E33	1	AMYLOID B 1-42/CN
E34	1	AMYLOID B PEPTIDE(1-40) (SYNTHETIC)/CN
E35	1	AMYLOID B-PEPTIDE-BINDING ALCOHOL DEHYDROGENASE/CN
E36	1	AMYLOID B-PROTEIN PRECURSOR (HUMAN C-TERMINAL FRAGMENT) /CN

=> s e33-34 or e36

1 "AMYLOID B 1-42"/CN  
1 "AMYLOID B PEPTIDE(1-40) (SYNTHETIC)"/CN  
1 "AMYLOID B-PROTEIN PRECURSOR (HUMAN C-TERMINAL FRAGMENT)"/CN  
N

L9 3 ("AMYLOID B 1-42"/CN OR "AMYLOID B PEPTIDE(1-40) (SYNTHETIC)"/CN) OR "AMYLOID B-PROTEIN PRECURSOR (HUMAN C-TERMINAL FRAGMENT)"/CN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.16	50.25

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:53:12 ON 16 OCT 2006

=> s l9/anst

2189 L9

1105363 ANST/RL

L10 61 L9/ANST

(L9 (L) ANST/RL)

=> s l10 and pd<20021106

22742485 PD<20021106

(PD<20021106)

L11 25 L10 AND PD<20021106

=> s l11 and (mass spec?)

937694 MASS

81912 MASSES

979393 MASS

(MASS OR MASSES)

5351198 SPEC?

290434 SP

7668 SPS

297726 SP

(SP OR SPS)

5564761 SPEC?

(SPEC? OR SP)

307183 MASS SPEC?

(MASS(W) SPEC?)

L12 3 L11 AND (MASS SPEC?)

=> d bib abs 1-3

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:777514 CAPLUS Full-text

DN 132:148708

TI On-line high-performance liquid chromatography/mass spectrometric investigation of amyloid- $\beta$  peptide variants found in Alzheimer's disease

AU Thompson, Andrew J.; Lim, Teck K.; Barrow, Colin J.

CS School of Chemistry, University of Melbourne, Parkville, 3052, Australia

SO Rapid Communications in Mass Spectrometry (1999), 13(23), 2348-2351

CODEN: RCMSEF; ISSN: 0951-4198

PB John Wiley & Sons Ltd.

DT Journal

LA English

AB A $\beta$  peptides are the major components of amyloid deposits in Alzheimer's disease. The presence of N-terminally truncated A $\beta$  variants in amyloid may be a critical factor in Alzheimer's disease pathogenesis. These A $\beta$  variants are less soluble and more amyloidogenic than full-length A $\beta$ , making their separation, purification and identification difficult. High-performance liquid chromatog. (HPLC) at elevated temps., coupled to electrospray ionization (ES) mass spectrometry (MS), enables rapid separation and identification of N-terminally truncated A $\beta$  variants. This methodol. provides a potential tool for exploring the importance of these A $\beta$  variants in both the pathogenesis and diagnosis of Alzheimer's disease.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:21587 CAPLUS Full-text

DN 126:130138

TI The profile of soluble amyloid  $\beta$  protein in cultured cell media.  
Detection and quantification of amyloid  $\beta$  protein and variants by immunoprecipitation-mass spectrometry

AU Wang, Rong; Sweeney, David; Gandy, Samuel E.; Sisodia, Sangram S.

CS Lab. Mass Spectrometry, Rockefeller Univ., New York, NY, 10021, USA

SO Journal of Biological Chemistry (1996), 271(50), 31894-31902

CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

AB To study the metabolism of amyloid  $\beta$  protein (A $\beta$ ) in Alzheimer's disease, the authors have developed a new approach for analyzing the profile of soluble A $\beta$  and its variants. In the present method, A $\beta$  and its variants are immunoisolated with A $\beta$ -specific monoclonal antibodies. The identities of the A $\beta$  variants are determined by measuring their mol. masses using matrix-assisted laser desorption ionization time-of-flight mass spectrometry. The levels of A $\beta$  variants are determined by their relative peak intensities in mass spectrometric measurements by comparison with internal stds. of known identities and concns. The authors used this method to examine the A $\beta$  species in conditioned media of mouse neuroblastoma cells transfected with cDNAs encoding wild type or mutant human amyloid precursor protein. In addition to human A $\beta$ -(1-40) and A $\beta$ -(1-42), more than 40 different human A $\beta$  variants were identified. Endogenous murine A $\beta$  and its variants were also identified by this approach. The present approach is a new and sensitive method to characterize the profile of soluble A $\beta$  in conditioned media and biol. fluids. Furthermore, it allows direct measurement of each individual peptide in a peptide mixture and provides comprehensive information on the identity and concentration of A $\beta$  and A $\beta$  variants.

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1994:698351 CAPLUS Full-text

DN 121:298351

TI APP717 missense mutation affects the ratio of amyloid  $\beta$  protein species (A $\beta$ 1-42/43 and A $\beta$ 1-40) in familial Alzheimer's disease brain

AU Tamaoka, Akira; Odaka, Asano; Ishibashi, Yoshihiro; Usami, Mihoko; Sahara, Naruhiko; Suzuki, Nobuhiro; Nukina, Nobuyuki; Mizusawa, Hidehiro; Shoji, Shin'ichiro; et al.

CS Inst. Clinical Med., Univ. Tsukuba, Ibaraki, 305, Japan  
 SO Journal of Biological Chemistry (1994), 269(52), 32721-4  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PB American Society for Biochemistry and Molecular Biology  
 DT Journal  
 LA English  
 AB We have biochem. purified A $\beta$  from brains of two unrelated familial Alzheimer's disease (FAD) pedigrees with the APP717 mutation (Val  $\rightarrow$  Ile) and from two sporadic Alzheimer's disease (AD) brains and characterized them by means of mass spectrometry and ELISA. We observed two types of amyloid  $\beta$  protein (A $\beta$ ), the short-tail form (A $\beta$ 1-40) and the longtail form (A $\beta$ 1-42/43), in sporadic AD and FAD brains, and found that the ratio of the long-tail form of A $\beta$  (A $\beta$ 1-42/43) to total A $\beta$  was increased in FAD brains. These in vivo results were confirmed in vitro using cultured cells transfected with three kinds of APP cDNAs bearing the APP717 mutations (Val  $\rightarrow$  Ile, Gly, or Phe). Taken together with the hypothesis that A $\beta$ 1-42/43 functions as "seed" that increases the kinetics of amyloid fibril formation, we conclude that the APP717 missense mutation does not create new A $\beta$  species but promotes the increased accumulation of A $\beta$ 1-42/43 in the brain, which results in the enhancement of amyloid fibril formation from soluble A $\beta$ . These findings provide a causal relationship between this FAD genotype and the pathol. phenotype of A $\beta$  deposition and senile plaque formation.

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	18.78	69.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

STN INTERNATIONAL LOGOFF AT 13:56:49 ON 16 OCT 2006